Joerns

User-Service Manual

Joerns® Bed Frames

EasyCare® Bed

To avoid injury, read user's manual before using.

Important Precautions

⚠**Warning: Possible Injury Or Death.** This product is intended for use as an adjustable mattress platform that contours for resident/patient comfort with adjustable height for resident/patient and caregiver convenience. Use of this product in a manner for which it was not designed could result in unproven or unsafe configuration, potentially resulting in injury or death.

⚠**Warning: Possible Injury.** Before adjusting bed, ensure that area under and near bed perimeter is free of people and obstructions. Failure to do so could result in injury or damage to the bed.

⚠**Warning: Possible Injury.** Keep bed in lowest position except when providing care (bathing, clothing changes, etc.). Bed should be at lowest convenient height for entry or exit. Failure to do so could result in injury.

⚠**Warning: Possible Injury Or Death.** Resident/patients may become entangled in pendant cord. Resident/patients with reduced mental acuity should not be allowed access to pendant. Unsupervised use of pendant could result in injury or death.

⚠**Warning: Possible Injury Or Death.** Bed safe working load is 500 pounds. This is total weight counting resident/patient, mattress, bedding accessories and any other equipment or persons likely to be on bed. Do not exceed 500-pound safe working load. Exceeding the safe working load could result in property damage, injury or death.

⚠**Warning: Possible Injury Or Death.** Do not roll bed over abrupt thresholds with resident/patient in bed. Bed is not designed for transporting resident/patient. Transporting resident/patient in the bed could result in injury or death.

⚠**Warning:** Possible fire hazard when used with oxygen administrating equipment other than nasal, mask or ½ bed length tent type. Not for use with full bed length tent or hyperbaric oxygen chamber. Oxygen tent should not extend below mattress support platform. Lock hand control at foot of bed when using oxygen administering equipment.

⚠**Warning: Possible Shock Hazard.** Unplug power cord from wall outlet before performing any maintenance, cleaning or service to the bed. Failure to do so could result in injury or death. **Note:** In case of unexpected movement, unplug bed from any outlet.

⚠**Warning: Possible Shock Hazard.** Injury may result from improper routing of the power cord. Always follow the proper factory-installed routing configuration. Failure to do so could result in injury or death.

⚠**Warning: Possible Injury Or Death.** Use a mattress that is properly sized to fit mattress deck, that will remain centered on mattress deck relative to State and Federal guidelines. Joerns Healthcare recommends the use of a mattress with minimum dimensions of 35 inches wide and 6 inches deep. Length should match mattress support platform. Use of an improperly fitted mattress could result in injury or death. If using the CareWide accessory or the bed is equipped with Care-Fit integrated width expansion, Joerns Healthcare recommends the use of a mattress with a minimum width of 39 inches for a 39 inch setting and 42 inches for 42 inch setting.

⚠**Warning: Possible Injury Or Death.** If a resident/patient's mental or physical condition could lead to resident/patient entrapment, the mattress support platform should be left in the flat position when unattended. Failure to do so could result in injury or death.

⚠**Warning:** An optimal bed system assessment should be conducted on each resident by a qualified clinician or medical provider to ensure maximum safety of the resident. The assessment should be conducted within the context of, and in compliance with, the state and federal guidelines related to the use of restraints and bed system entrapment guidance, including the *Clinical Guidance for the Assessment and Implementation of Side Rails* published by the Hospital Bed Safety Workgroup of the U.S. Food and Drug Administration. Further information can be obtained at the following web address: http://www.fda.gov/MedicalDevices/ProductsandMedicalProcedures/GeneralHospitalDevicesandSupplies/HospitalBeds/default.htm.

⚠**Warning: Possible Injury Or Death.** Use a properly sized mattress in order to minimize the gap between the side of mattress and assist device. This gap must be small enough to prevent resident/patient from getting his/her head or neck caught in this location. Make sure that raising or lowering bed, or contouring the sleep surface, does not create any hazardous gaps. Excessive gaps may result in injury or death.

⚠**Warning: Possible Injury Or Death.** Locate mounting brackets for assist devices strictly according to instructions. Gap between head/foot panel and assist device must be small enough or large enough to prevent resident/patient from getting his/her head or neck caught in this location (see specific Assist Device

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Installation Instructions for more information). If multiple assist devices are used, position each so that gap between them is large enough for trunk and hips to pass through easily. Make sure raising or lowering bed, or contouring sleep surface does not create any hazardous gaps. Failure to do so could result in injury or death. **Important Note:** Powered air mattress surfaces may pose a risk of entrapment. Prior to use, ensure the therapeutic benefits outweigh the risk of entrapment.

⚠ **Warning: Possible Injury Or Death.** Do not use an assist device if any openings within assist device body allow resident/patient to get his/her head or neck lodged within these openings. Use of assist devices with large openings may result in injury or death.

⚠ **Warning: Possible Injury Or Death.** Do not use any Joerns® assist device until you verify it is designed specifically for EasyCare® and it is locked in place. Failure to lock assist devices may result in injury or death.

⚠ **Warning: Possible Injury Or Death.** Do not use any replacement parts not manufactured, marketed or provided by Joerns Healthcare on any Joerns bed. Use of unapproved replacement parts may result in injury or death.

⚠ **Warning: Possible Injury Or Death.** If using accessories not manufactured, marketed or provided by Joerns Healthcare for Joerns beds, consult with the manufacturer for compatibility and limitations prior to use. Failure to do so may result in injury or death.

⚠ **Warning: Possible Shock Hazard.** If the bed power cord has a hospital-grade, 3-prong grounding plug, grounding reliability can only be achieved when equipment is connected to an equivalent receptacle marked hospital-grade.

⚠ **Warning: Possible Injury.** Sitting on or sliding over the Mattress Side Stop can cause skin injury if the bed mattress compresses to less than 1.5 inches under user's weight.

⚠ **Warning: Possible Injury.** Risk of entanglement or injury may occur if mattress used with Mattress Side Stop does not fill the entire width between stops or which compresses to less than 1.5 inches under user's weight.

⚠ **Warning: Possible Injury or Death.** Floor locks increase bed stability and resident safety. Make sure the bed is in a locked position with respect to the floor by ensuring the casters are off the floor or if equipped, the Care-Lock is in the locked position before attempting any resident transfers. Failure to do so could result in injury or death.

⚠ **Warning: Possible Injury.** Use caution when activating the Care-Lock function. This feature was designed to be activated by your foot. Using your hand to activate the Care-Lock system could result in injury.

⚠ **Caution:** In the absence of line voltage, all bed adjustments can be achieved via an externally available backup battery (Joerns P/N N511). Joerns recommends a minimum of one battery for every twenty five beds per facility.

⚠ **Caution:** This device complies with EMC requirements of IEC 60601-1-2. Radio transmitting equipment, cellular phones or similar electronic devices, used in proximity of bed, may affect bed performance.

⚠ **Caution:** Particular precaution must be considered during exposure to strong emission sources such as High Frequency surgical equipment and similar devices. Do not route High Frequency cables on or near device. If in doubt, contact a qualified technician.

⚠ **Caution:** The Joerns' EasyCare bed is intended for use within an institutional healthcare environment (ie: skilled nursing, transitional care, rehabilitational care, assisted living). Joerns Healthcare recommends compliance to the regulations and guidelines specified to your locality.

This product is only one part of your healthcare bed system. Proper combinations of mattress, head/foot panels and assist devices are needed to minimize the risk of entrapment. For more information, call Customer Care, 800-826-0270.

Save These Instructions

Thank you and congratulations for choosing Joerns EasyCare bed. Joerns beds are developed with safety, comfort and convenience of both residents/patients and caregivers in mind.

Advanced ergonomic design will provide years of reliable service in your facility.

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Bed System Entrapment Information

Although essential in the practice of long-term care, bedside rails, in recent years, have also been a subject of regulatory review and evolution in design and use.

That focus includes not only the challenge of achieving an appropriate balance between resident security and unnecessary restraint, but also the additional safety issue of entrapment.

The U.S. Food and Drug Administration (FDA), working with our company and other industry representatives has addressed the potential danger of entrapment with new safety guidelines for medical beds. These guidelines recommend dimensional limits for critical gaps and spaces between bed system components.

Entrapment zones involve the relationship of components often directly assembled by the healthcare facility rather than the manufacturer. Therefore, compliance is the responsibility of the facility.

As the leading manufacturer of long-term care beds and a frontrunner in addressing this critical issue, Joerns Healthcare can offer you the expertise, assistance and products to bring your facility into compliance.

Bed Identification Numbers

When ordering parts or when contacting our Customer Care Department, please include the bed's model, product and serial numbers, found on the identification labels. The identification labels are located on bed frame under the sleep deck foot section.

Joerns® Compliance Solutions

Matching the right bed components in order to meet regulatory guidelines can be complex.

That is why Joerns offers a wide array of compliance options. We assist customers in selecting compliant accessories recommended for their specific bed model.

Creating a Safer Care Environment

While the guidelines apply to all healthcare settings, (hospitals, nursing homes and at home), long-term care facilities have particular exposure since serious entrapment events typically involve frail, elderly or dementia patients.

For More Information

To learn more about compliance options with Joerns products, visit our website at www.joerns.com, or contact our Customer Care reps at 800-826-0270 and ask for free informational publications.

To learn more about entrapment zones, assessment methods and guidelines concerning entrapment, contact Joerns Healthcare at 800-826-0270 or consult the FDA website: http://www.fda.gov/MedicalDevices/ProductsandMedicalProcedures/GeneralHospitalDevicesandSupplies/HospitalBeds/default.htm.

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I.D. Label Symbol Definition

Attention, Consult accompanying documents

Safe Working Load

Type B Applied Parts

Class II Equipment

Protective Earth (ground)

Features and Specifications

Standard Features

76" or 80" Sleep Surface
Travel Range: 7" to 30"
Locking System:
- Roll-in-Low Lock System
- Care-Lock Roll at any Height Mobility

Pendant Jacks on both left and right side
Whisper Quiet DC Motors
Welded Tubular Frame
Grid Sleep Surface
SoftTone Frame Color
Baseboard Bumper
Wide Stable Base
Heavy-Duty Casters
Mattress Stops
Patented Lifting Mechanism (US Patent 6473922)
EasyLift Leg Positioner
Battery Pack Cable

Electrical Specifications

Power: 120 VAC
Frequency: 60 Hz
Current Rating: 4.0 Amps (120V)
Classification: Class I, Type B or Class II, Type B
Mode of Operation: 10% Maximum Duty Cycle
2 minutes on/18 minutes off
Circuit Protection: LA27 Actuators: Auto Reset
Current Sensor

Environmental Conditions

Operating Conditions:
Ambient Temperature: +10°C to +40°C
Relative Humidity: 30% to 75% Non-Condensing
Atmospheric Pressure: 700 hPa to 1060 hPa

Storage and Shipping Conditions:
Ambient Temperature: -40°C to +70°C Relative Humidity: 10% to 100%
Atmospheric Pressure: 500 hPa to 1060 hPa

Accessories And Options

76", 80" and 84" Joerns® Mattresses
Joerns Bed Panels
F18 SoftCare half rail
F14SC Assist Device Set
F025 Assist Handle
F026 Assist Device
F027 Pivot Assist Handle
F028 Deluxe Assist Device
Staff Control
IV Rod
Floor Mat
Emergency Battery Backup System
- Battery Backup 24V
- Battery Charger 24V
- Wall Mounting Bracket for Charger

Trapeze and Trapeze Adapter
Drainage Bag Holder

Mechanical Specifications

Description:	**Dimensions:**
76"	80.75"L x 35.0"W x 7.0"H
80"	84.25"L x 35.0"W x 7.65"H
Weight	
Roll-in-Low	220 lbs.
Roll at any Height	230 lbs.
Care-Fit Integrated Width	+40 lbs.
Maximum Back Angle	65° to horizontal
Maximum Knee Angle	35° to horizontal
Maximum Knee To Leg Angle	45°
Minimum Height Mattress Support Surface	
Roll-in-Low	7.00"
Roll at any Height	7.65"
Maximum Height Mattress Support Surface	
Roll-in-Low	30.00"
Roll at any Height	30.65"
Safe Working Load	500 lbs.
Hi-Lo Speed	
Unloaded	50 seconds
With 200 lbs	52 seconds

Tolerance ± 3 seconds

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Assembly

Installation Of Head and Foot Panels

Refer to Bed Panel Installation Sheet for more
Tools required: #2 Phillips screwdriver

Head Panel Installation:

1. Locate the head panel; the head panel has a label on the back.
2. Lay panel on a flat soft surface, face down, with the threaded t-nuts facing away from the bed occupant.
3. Head panel brackets have rubber bumpers mounted on them.
4. The panel brackets are right-left oriented. Items welded to the side of the panel mounting tube should be placed to the inside (Figure 1). Install head panel brackets with four screws provided. Do not tighten at this time.
5. Insert the brackets into the bed frame sockets (Figure 2); maintain support of the bed panel. Insert the safety pins on each side and latch them (Figure 3).
6. Press the mounting bracket against the bed frame and tighten the four panel mounting screws; right and left side.

Foot Panel Installation:

1. Locate the Foot Panel; the foot panel does not have a label on the back.
2. Lay panel on a flat soft surface, face down, with the threaded t-nuts facing towards the bed occupant.
3. The panel brackets are right-left oriented. Items welded to the side of the panel mounting tube should be placed to the inside (Figure 4). Install foot panel brackets with four screws provided. Do not tighten at this time.
4. Insert the brackets into the bed sockets (Figure 5); maintain support of the bed panel. Insert the safety pins on each side and latch them (Figure 6).
5. Press the mounting bracket against the bed frame and tighten the four panel mounting screws; right and left side.

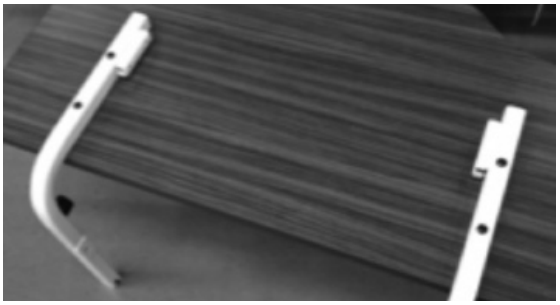

Figure 1

Figure 2

Figure 3

Figure 4

Figure 5

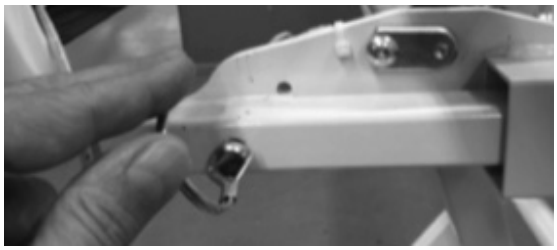

Figure 6

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⚠ **Caution:** Carefully remove the packaging straps (orange zip ties) before attempting to operate the bed.

Installation Of Baseboard Bumper

Recommended Tool: Rubber mallet

1. Place the baseboard bumper as shown (Figure 7).
2. Tap into place with a rubber mallet or press firmly with the sole of your shoe until it locks into place as shown (Figure 8).

Installation Of Baseboard Bumper (Advanced Staff Control)

Recommended Tool: Rubber mallet

The bed will ship with the standard bumper installed. If the 12° Trendelenburg Mode is enabled (optional) it will be necessary to remove the installed bumper and install the 12° bumper. **Note:** The 12° bumper can be identified by a silver label with "12°" printed on it. It is longer than the standard bumper.

1. Remove the shorter bumper by tapping the tangs on either side of the leg with a rubber mallet.
2. Place the 12° baseboard bumper.
3. Tap into place with a rubber mallet or press firmly with the sole of your shoe until it locks into place.

Installation of Mattress Stop

Mattress Stops are designed to help keep the mattress from sliding laterally and longitudinally on the mattress support platform.

Installation Steps

Required tool - #2 Phillips screwdriver

1. Locate the screws at each corner of the inside tube at the foot end of the mattress support platform; one per side (Figure 9).
2. Remove the screws using the #2 Phillips screwdriver; do not discard the screws.
3. Position and insert the mattress stops in the holes provided (Figure 10). Reinstall the screws removed in step 2.
4. Repeat at each corner of the head end of the mattress support platform.

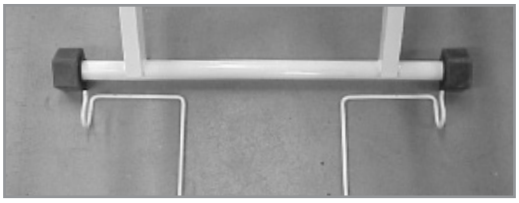

Figure 7

Figure 8

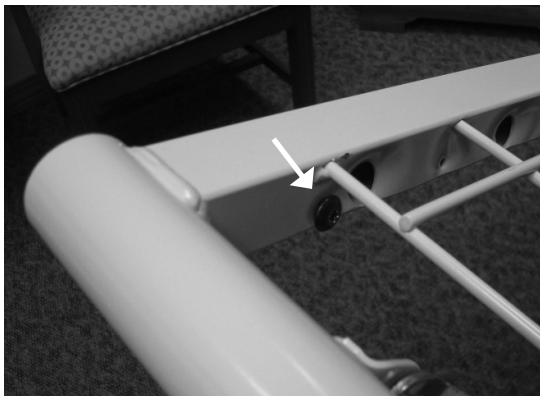

Figure 9

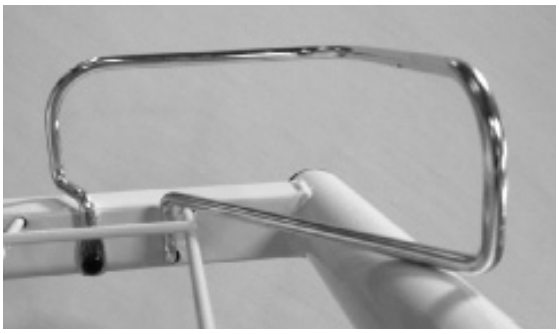

Figure 10

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IV Sockets

Joerns® EasyCare® bed has four IV sockets as standard equipment. There are two sockets at head end of bed and two at foot end (Figures 11 and 12). The IV sockets are compatible with Joerns IV poles and most ½" IV poles.

Installation of Staff Control Panel **(Optional)**

1. Mount the foot panel on the bed as indicated in previous instructions.
2. Align and insert the staff control cable plug into the cable jack, located on the bed (Figure 13).
3. Ensure that the cable plug is fully inserted into the cable jack.
4. To secure tighten the union nut on both cables (Figure 14).

Operation

Pendant Operation

Your EasyCare bed comes standard with one of the pendants shown in Figures 19 and 20 on page 9. The pendant plugs into a jack under either side of the seat pan.

1. Unscrew the union nut (Figure 15) and insert the cable plug, with the arrow facing up into jack (Figure 16).
2. Ensure that the cable plug is fully inserted into the jack (Figure 17, page 9).
3. Screw on the union nut from the cable to secure cable (Figure 18, page 9).
4. The pendant has raised, high-contrast buttons and graphics.

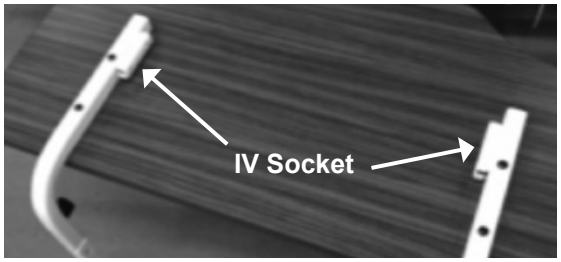

Figure 11

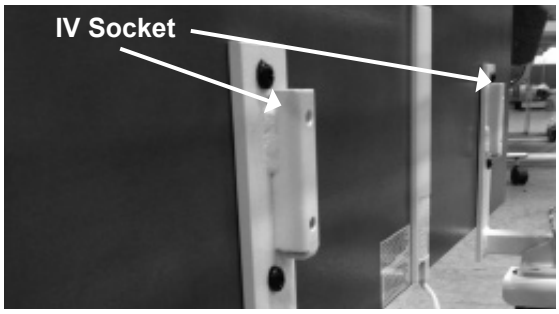

Figure 12

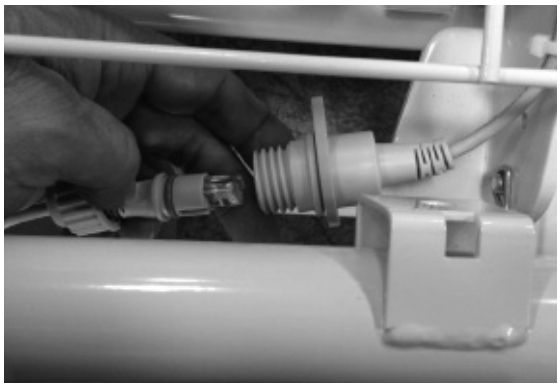

Figure 13

Figure 14

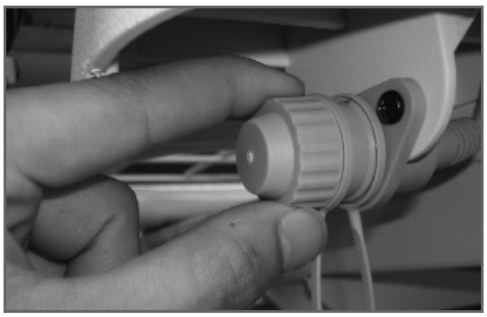

Figure 15

Figure 16

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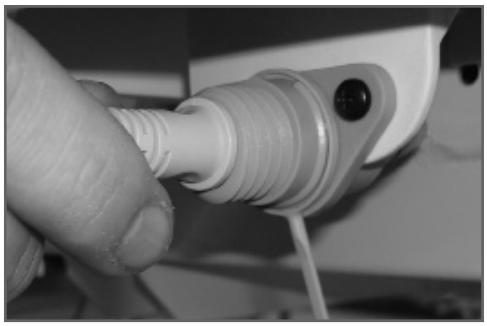


Figure 17

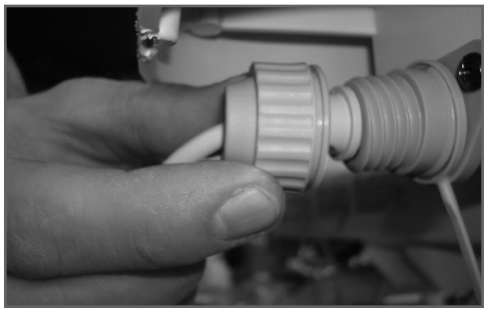


Figure 18

Standard Pendant Operation (Figure 19)

Head Operation
1. Push button to raise Back
2. Push button to lower Back

Knee Operation
3. Push button to raise Knee
4. Push button to lower Knee

Bed Height Operation
5. Push button to raise Bed
6. Push button to lower Bed

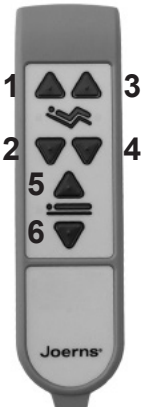


Figure 19

Advanced Pendant Operation (Figure 20)

Head Operation
1. Push button to raise Back
2. Push button to lower Back

Knee Operation
3. Push button to raise Knee
4. Push button to lower Knee

Bed Height Operation
5. Push button to raise Bed
6. Push button to lower Bed

Comfort Chair Operation
7. Push button for Comfort Chair
8. Push button to lower both head and knee to flat and place bed at transfer height

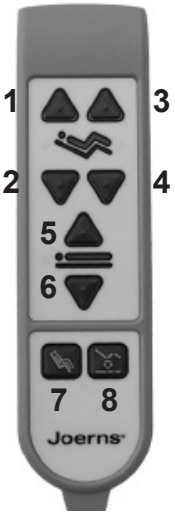
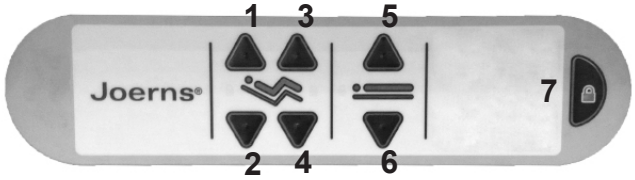


Figure 20

Staff Control Panel Operation (Optional) **(Figures 21 and 22)**

The Staff Control Panel allows the caregivers to operate the bed from the foot panel without walking to the bedside. The caregiver can also individually lock out all functions, both Pendant and Staff Control.

1. To lock out a function, press and hold the “Lock” graphic on the panel and push the function to lock out. Illuminated amber LED indicates that the function is now locked out.
2. To unlock a function, press and hold the “Lock” graphic on the panel and push the function to unlock. Amber LED is no longer illuminated, signaling that the function is now operable.



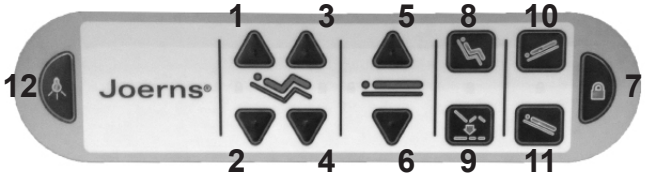
Standard Staff Control (Figure 21)

Head Operation
1. Push to raise Back
2. Push to lower Back

Knee Operation
3. Push to raise Knee
4. Push to lower Knee

Bed Height Operation
5. Push to raise Bed
6. Push to lower Bed

Lock Operations
7. Push and hold to change lockout status in combination with another function button.



Advanced Staff Control (Figure 22)

Head Operation
1. Push to raise Back
2. Push to lower Back

Knee Operation
3. Push to raise Knee
4. Push to lower Knee

Bed Height Operation
5. Push to raise Bed
6. Push to lower Bed

Lock Operations
7. Push and hold to change lockout status in combination with another function button.

Additional Operations
8. Push for Comfort Chair
9. Push to lower both head and knee to flat and place bed at transfer height
10. Push for Trendelenburg
11. Push for reverse Trendelenburg
12. Push button to toggle under bed light on and off (optional)

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Setting 12 Degree Trendelenburg Mode
(Advanced Staff Control)

The bed will ship set to 4° Gravity Assist mode. This mode limits the head down angle to 4°. The software can be changed to 12° Trendelenburg mode to enable Trendelenburg functionality.

1. Install Advanced Staff Control Panel described.
2. Simultaneously, press and hold Trendelenburg (Button 10, Figure 22 on page 10) and reverse Trendelenburg (Button 11, Figure 22, page 10) buttons for 5 seconds on Advanced Staff Control Panel.
3. Trendelenburg/Reverse Trendelenburg lock icon will begin flashing indicating that the system is in programming mode.
4. Press bed up (Figure 22, page 10) button to select full 12° Trendelenburg mode.
5. Bed Hi-Low lock out icon will flash twice confirming software is set to 12° Trendelenburg mode.
   Note: Be sure correct baseboard bumper is installed. Failure to install the correct baseboard bumper can result in damage to the bed or walls. The 12° bumper is identified by a silver label with "12°" printed on it.
6. To return bed to 4° Gravity Assist, repeat steps 2 and 3 then press bed down (Figure 22, page 10). Bed Hi-Low lock icon will blink once confirming software is now in 4° Gravity Assist mode. Install correct baseboard bumper.

Bed Transport

Roll in Low Lock System

1. To keep the bed from rolling when in the lowest position, press down on the locking lever to lock casters (Figure 23).
2. The standard caster set comes with two locking casters placed at opposing corners of bed.

	Mobile Position	Locked Position	Swivel Casters
Roll in Low Lock System	Low only	Any Height (casters must be locked in Low)	Head & Foot (in Low position only)

Figure 23

Care-Lock Feature (Optional)
The bed features a rolling base that allows it to be rolled or locked at any bed height.

To stop motion of the bed, enable the Care-Lock feature:

1. Engage the steering locks, located on the dual wheel casters at the head of the bed (Figure 24).
2. Engage the Care-Lock at the foot end of the bed by pressing down on the red or right side pedal (Figure 25).

To resume bed movement, disable the Care-Lock feature:

1. Disengage by pressing down on the green or left pedal (Figure 26). The steering locks may remain in place for desired maneuverability.

⚠**Warning: Possible Injury**. Before leaving the bed unattended, check that the Care-Lock feature is in the locked position. Never leave an unlocked bed unattended.

⚠**Warning: Possible Injury.** Check that the Care-Lock feature is in the locked position before allowing the resident to enter or exit the bed.

For best practices, the Care-Lock feature should be locked at all times, except when the bed is being moved.

Figure 24

Figure 25

Figure 26

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Care-Fit Integrated Width Expansion (optional)

The EasyCare Care-Fit Integrated Width Expansion option allows the mattress support platform (MSP) to be set at a bed width of 35", 39", or 42". If your Joerns bed has been configured with the Care-Fit option the following steps will provide adequate instruction on the operation of this feature.

1. If applicable, remove the sleep surface.
2. Locate the width expansion locking pin on any of the six MSP extensions (Figure 27).
3. Turn the locking pin in an orientation that allows it to be vertically lifted and removed (Figure 28).
4. Slide the MSP extension to the desired width. Note the width indicator found on the head and foot extensions (Figure 29 and 30).
5. Insert the locking pin and rotate to retain (Figure 28 and 27, respectively). Push and pull on the MSP extension to ensure it is secured.
6. Repeat the above steps on the remaining MSP extensions.

⚠**Warning: Possible Injury Or Death.** Use a mattress that is properly sized to fit mattress deck, that will remain centered on mattress deck relative to State and Federal guidelines. Joerns Healthcare recommends the use of a mattress with minimum dimensions of 35 inches wide and 6 inches deep. Length should match mattress support platform. Use of an improperly fitted mattress could result in injury or death. If using CareWide or the bed is equipped with Care-Fit, Joerns Healthcare recommends the use of a mattress with a minimum width of 39 inches for a 39 inch setting and 42 inches for 42 inch setting.

⚠**Warning: Possible Injury or Death.** Do not apply any width expansion accessory kit to a Joerns bed equipped with the Care-Fit integrated width expansion feature. Failure to comply may cause the bed to become unstable, leading to a possible injury or equipment failure.

Figure 27

Figure 28

Figure 29

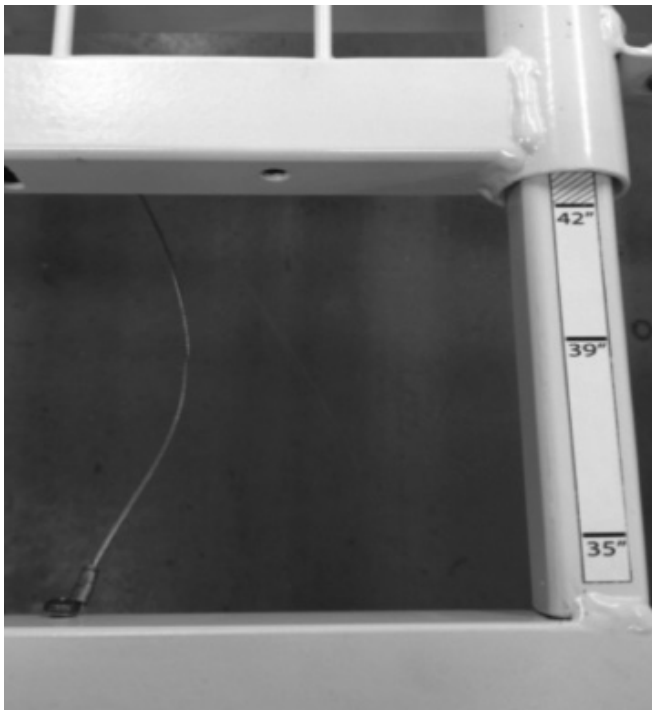

Figure 30

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EasyLift Leg Positioner Operation

1. To raise: Grasp the bed's foot deck and raise to the desired position (Figure 35).
2. To lower: Grasp the foot end of the bed's deck and raise ½-inch to ¾-inch above present notch, then lower gently;
3. Or, grasp the foot end of the bed deck, raise to the highest position, and lower gently.

Servicing

Power Cord and Grounding Connectors

Inspection of power cord and grounding connectors (if present) should be conducted on a yearly basis to ensure efficient bed operation.

1. Check the power cord to make sure it has not been damaged. If the power cord needs replacement due to damage, remove the bed from use/service until the power cord has been replaced.
2. Check the grounding connectors (if present) to ensure they remain intact and are securely fastened to their intended connection point.

Actuator and Control Box Information

⚠**Warning: Possible Shock Hazard.** Unplug the power cord from the wall outlet before performing any maintenance/service to the control box.

Note: Overload protection is achieved via current sensing technology, which will reset automatically if any bed function fails to operate. Ensure that the bed is not overloaded or constrained from movement.

Actuator And Control Box Identification
Cable and Port Identification (Figures 36 and 37)
1. Foot Leg Hi/Low Actuator (red)
2. Back Actuator (yellow)
3. Head Leg Hi/Low Actuator (orange)
4. Knee Actuator (blue)
5. Control Harness (green)
6. Emergency Battery Pack
7. AC Power

Note: The Actuators and Control Box contain no serviceable parts. Overload protection is achieved via current sensing technology, which will automatically reset. If any bed function fails to operate, check to see if the bed is overloaded or constrained from movement.

Figure 35

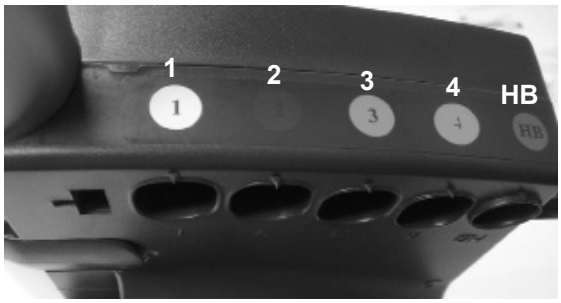

Figure 36

Figure 37

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To Remove Control Box

1. Plugs and outlets are numbered and color-coded so they can be easily reinstalled later (See Actuator And Control Box Identification).
2. Unplug from wall outlet.
3. Unplug all actuator cords and pendant/staff control plug.
4. Remove the control box retaining clip (Figure 38).
5. Slide the Control Box off the actuator assembly.
6. To replace the Control Box, reverse these instructions.

To Remove Actuator

Recommended Tools: Screwdriver, Hammer, Masking Tape, Zip Ties

1. Identify the actuator to be replaced.
2. Tip the bed on its side to replace high/low actuator(s).
3. Unplug the actuator cord.
4. The actuator is held in place by two pins. Use a screwdriver to remove the lock ring on each pin.
5. Slide the pins out of holes. If necessary, use the hammer to tap out the pins.
6. You may now replace the actuator(s).
7. To reassemble the bed, reverse the previous steps, making note of the following two important items:
   - Assemble the pin and lock rings as originally installed.
   - Zip-ties should be replaced, with cords returned to their original position and routing direction to the control box.

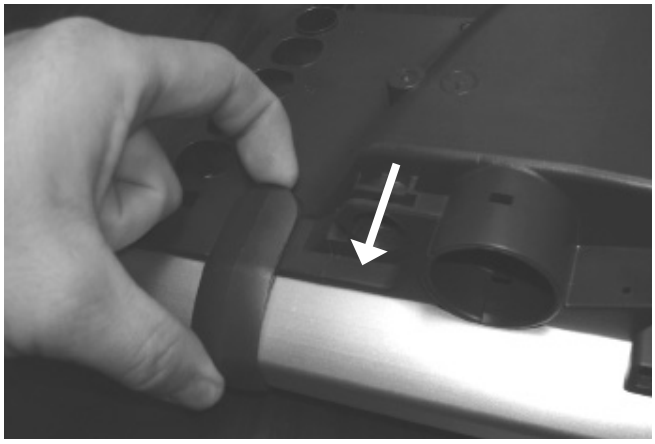

Figure 38

To Remove AC Power Cable

Recommended Tools: Small Screwdriver, Masking Tape, Zip Ties, 5/16" Nut Driver

1. Raise the bed so that there is about 27 inches of clearance between the floor and the mattress support platform of bed.
2. Unplug the power cable from the outlet.
3. Cut the zip-ties that hold the power cable to the frame. Tape the remaining cables in their original position. It is very important to keep the actuator cables routed along the frame in their original factory-installed positions. If this step is not followed, damage to cables or electric shock may result.
4. Detach the ground wire from the bed frame if equipped.

⚠ **Warning: Possible Shock Hazard.** Injury may result from improper power cable routing. Always follow proper factory-installed routing configuration. Be sure to check condition of the power cable on a regular basis. Do not use damaged or frayed power cables.

5. Using a small screwdriver, alternately depress the small red latch tabs above and below AC receptacle on the control box. Simultaneously, pull gently outward on the power cable where it connects to the control box, until the plug comes out.
6. Plug the replacement cable into the control box until it latches. Attach the ground wire to the bed frame.
7. Re-route the power cable along the frame in the same position as the original routing.
8. Replace zip-ties along with cables in their original position and routing to the control box. If this step is not followed, damage to the cables or electric shock may result.

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Troubleshooting

Any loss of electrical function should be investigated with the following steps:

Event	Possible Remedies
Bed not responding to pendant control	1. Check lockout status. 2. Check connection is fully inserted with cable secured. 3. Check the bed is plugged into power source and control box green light is illuminated 4. Thermal overload condition. This should self-correct in 2 minutes or less. Do not surpass 10% duty cycle (2 min on/ 18 min off). 5. If these steps fail to resolve the problem, call Technical Support at 800-826-0270.
Bed not responding to Staff Control	1. Check lockout status 2. Check connection is fully inserted with cable secured. 3. Check the bed is plugged into power source and control box green light is illuminated. 4. If these steps fail to resolve the problem, call Technical Support at 800-826-0270.

Note: Electrical damage can occur if a non-approved pendant is connected to the electrical system.

Maintenance

Maintenance/Inspection Information:

Visually inspect the bed and accessories for broken welds or cracks and check for loose hardware on a monthly basis.

If any broken welds or cracks are found, remove bed from service immediately and replace affected part(s). If necessary, contact Technical Support, 800-826-0270, for assistance. Tighten any loose hardware.

Preventative Maintenance

To ensure maximum life of your product, follow all warnings and cautions in the User Manual and maintain your bed with care, as outlined below. The maintenance required will be dictated by your bed's usage and care – a thorough inspection should be conducted monthly.

To Maximize Service Life

1. Keep the bed clean.
2. Observe bed operation and report any discrepancies or problems to Joerns Healthcare Technical Support at 800.826.0270
3. After initial week of use, check all threaded fasteners for looseness, and make sure all pins are in their normal location and fastened securely. Check monthly for loose bolts, nuts, pins and other retaining hardware. Tighten any loose hardware, and contact Joerns Healthcare to order any appropriate service parts.
4. Make sure each inspection includes the underside of the bed frame and mattress support platform.
5. Visually inspect the bed frame and accessories for any cracking, bending, or hole enlargement. If found, contact Joerns Technical Support at 800.826.0270, remove the bed from service immediately, and replace the affected parts.
6. Check wiring for proper connections and damage (fraying, kinking, or deterioration). Report any damage to Joerns Technical Support at 800.826.0270
7. Check actuators for correct mounting at attachment points and ensure all related pins are mounted securely and properly to the bed frame. Actuators are not serviceable, but are replaceable if required.
8. Lubricate pivot point, pins and bolts as required. The recommended lubricant is Joerns-approved grease #12500013, available from Joerns Technical Support at 800.826.0270.

If any discrepancies are noted during inspection, they must be corrected before continuing bed frame use. Major service and repairs must be performed by authorized Joerns Healthcare Technical Support, which you may contact at 800.826.0270.

Cleaning

⚠ **Caution:** Possible damage to electrical parts, and/or shock hazard.

1. Clean all the electrical components (motors, control box, pendant and cords) on your Joerns® bed with damp, well-wrung out cloth. Excess water in or on electrical parts, could damage these components. Do not submerge the pendant in liquid.
2. Your Joerns bed features a durable, baked-on epoxy finish that is easily cleaned with a mild solution of antiseptic cleaner and warm water. Read and follow all label instructions on your cleaning products.
3. Wood veneer surfaces should be maintained by cleaning with furniture cleaner or polish.

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Accessories

All Accessories

⚠**Warning: Possible Injury Or Death.** Injury or death may result from improper use of bed accessories. Consult accessory manufacturer for compatibility, proper installation and use instructions.

Trapeze And Trapeze Adapter

⚠**Warning: Possible Injury Or Death.** Improper installation of the Trapeze Adapter could alter or dislodge the head panel position, increasing the risk of injury or suffocation.

⚠**Warning: Possible Injury Or Death.** Follow the manufacturer's directions when installing the Trapeze Bar. Improper installation of the Trapeze Bar on the Trapeze Adapter could cause the Trapeze Bar to disconnect/collapse or otherwise fail, resulting in injury or death.

⚠**Warning: Possible Injury Or Death.** A minimum of 1-inch clearance between the bottom of the Trapeze Bar and the floor is required when the bed is in its lowest position. Failure to do so could damage the floor and/or cause the bed to become unstable, resulting in injury or death.

Drainage Bag Holder

⚠**Warning: Possible BioHazard.** Prior to use, consult the Drain Bag manufacturer's installation and use instructions. Failure to do so could result in a bag puncture, resulting in a potential biohazard.

⚠**Warning: Possible Injury Or Death.** Many items that attach to the Holder are gravity fed and must be below the bed user to function. Do not allow items attached to the Holder to rest or be positioned on the floor where they might be stepped on and adversely affected or damaged. Exercise particular caution when the bed is moved to its lowest position as items attached to the Holder at that height are especially at risk. Failure to do so could result in injury or death.

⚠**Warning: Possible Injury Or Death**. Make sure items hung on this holder have proper clearance and are not pinched or caught during bed adjustment. Failure to do so could result in injury or death.

Trapeze (Figure 39)

1. We recommend using the Joerns® Trapeze with the Joerns Trapeze Adapter.
2. Install the Trapeze assembly according to manufacturer's directions included with the Trapeze.

Figure 39

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Trapeze Adapter (Figure 40)

1. The Trapeze Adapter is designed to allow attachment of the Trapeze system to the EasyCare® Bed. Prior to use, please read important warnings related to this option and follow all instructions below.
2. Install the Trapeze Adapter according to the supplied instructions. If needed, call Technical Support at 800-826-0270 for instructions.
3. Install the trapeze assembly onto the Trapeze Adapter according to the trapeze manufacturer's instructions.
4. Operate the bed from its highest through lowest positions to ensure proper clearance and operation. Some trapeze systems may not be suitable for use with the EasyCare Bed, due to its low operating height.
5. Adjustment and use of a Trapeze should be in accordance with instructions from a healthcare professional (doctor or therapist).
6. Do not exceed the maximum load condition listed on installation instructions.

Figure 40

Drainage Bag Holder (Figure 41)

1. The Drainage Bag Holder is designed as an attachment point for items such as urine collection bags. Make sure items attached to holder are safely secured. Prior to use, please read important warnings related to the Drainage Bag Holder and follow all instructions below.
2. Install the Drainage Bag Holder and attach items to the Holder according to supplied instructions. If needed, call Technical Support at 800-826-0270 for instructions.
3. It is important to operate all bed functions through their entire ranges to ensure that items attached to the Holder have proper clearance and are not pinched or caught.
4. Attach the Holder only to the point and position outlined in installation instructions. Operate all bed functions through their full ranges to ensure that items attached to the Holder have proper clearance and are not pinched or caught.
5. Many items that attach to the Holder are gravity fed and must be below bed user to function. Do not allow items suspended from the Holder to rest on the floor, particularly when the bed is in its lowest position. Otherwise, a safety condition may occur or the function of attached items may be impacted.

Figure 41

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Battery Back-up

Battery Backup Includes:

- Charger with Power Cord (with Cord Clip)
- Battery with Cable
- Wall Mount Bracket (with two screws)
- User Instructions

Battery Charger

1. Simply mount the Battery Charger in a central location convenient to caregiver staff. Plug the Battery Charger into any standard wall socket (110V; 50-60 Hz.).
2. Insert the Battery in the Battery Charger.
   - Green light -- indicates main power is on
   - Yellow light -- indicates Battery is charging
3. After about four hours of charging, the yellow light goes off and the Battery will be fully charged. **Note:** We recommend that users charge up the Battery immediately upon receipt.
4. The Battery has a useful life of about 3.5 years, depending upon usage. It is recommended to discharge the Battery as little as possible and to recharge quite frequently (by keeping the Battery connected to the Battery Charger when not in use), to provide the longest Battery life.
5. When the Battery needs replacing, dispose of the old Battery in the same manner you would dispose of a car (lead acid) battery.

Powering the EasyCare Bed with Battery Backup:

Attach the battery to the Battery Pack Patch Cord Socket at the bed foot end (Figure 42).

Depending on the Battery condition and load on the bed, one battery can typically raise and lower the bed, constituting one cycle, 20 to 25 times on single, full charge.

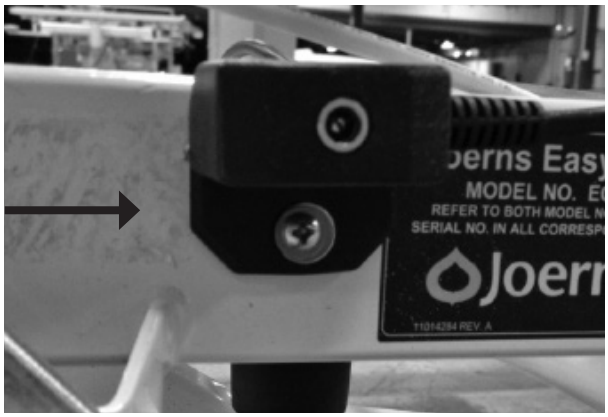

Figure 42

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Joerns

Joerns Healthcare Warranty Program

for Joerns® EasyCare® bed, Model ECS

Joerns EasyCare bed is guaranteed for a period of four years from the date of delivery, against defects in materials and workmanship, under normal use and service.

This four-year warranty includes all mechanical and electrical components.

Steel structural components on beds are covered under warranty for a period of 15 years from the date of delivery.

Welds are covered under warranty for the lifetime[1] of the product.

Damage caused by use in unsuitable environmental conditions, abuse or failure to maintain the product in accordance with user and service instructions is not covered.

Any alteration, modification, or repair unless performed by, or authorized in writing by, Joerns Healthcare, will void this warranty.

Parts

Joerns beds contain various parts that wear from normal use. These parts, such as DC batteries, are not covered under the four-year warranty but are covered for 90 days after date of delivery.

Joerns Healthcare's obligation under this warranty is limited to supplying replacement parts, servicing or replacing, at its option, any product which is found by Joerns Healthcare to be defective.

Warranty replacement parts are covered by the terms of this warranty until the product's original four-year warranty period expires.

When requested by Joerns Healthcare, parts must be returned for inspection at the customer's expense. Credit will be issued only after inspection.

Service

Most service requests can be handled by the facility Maintenance Department with assistance from the Joerns Healthcare Product Service Department.

Most parts requested can be shipped next day air at the customer's expense.

Should a technician be required, one will be provided by Joerns Healthcare, at our discretion. Only the Joerns Healthcare Product Service Department can dispatch authorized technicians.

This warranty is extended to the original purchaser of the equipment.

[1] Weld lifetime defined as 20 years.

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